

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) An analytic device with an automatic pipette, comprising:  
a robotic arm comprising that is structurally coupled to (1) a pipette tip receiving element  
and (2) a manipulator, wherein the robotic arm is configured to allow translation  
of translate the pipette tip receiving element along at least two of an x-coordinate,  
a y-coordinate, and a z-coordinate, and wherein the (2)-a manipulator that is  
configured to allow pushing of push a biochip from one location in the analytic  
device to another location, and wherein the manipulator is further configured to  
allow movement of the manipulator be movable in a linear and in a rotational  
motion;  
wherein the pipette tip receiving element is further comprises structurally coupled to a  
sensor, wherein the sensor is configured to allow detection of that detects  
presence of a disposable polymer pipette tip, and wherein the receiving element is  
further configured to allow removable coupling of the disposable polymer pipette  
tip that is removably coupled to the pipette tip receiving element;  
a first energy source and a first energy detector operably coupled to the pipette tip  
receiving element, such that wherein the first energy source is configured to allow  
providing of provides a first energy to a volume of a liquid that is aspirated into  
enclosed by the pipette tip without passing across a wall of the tip, and wherein  
such that the first energy detector is configured to allow receiving receives at least  
a portion of the first energy from the volume without the portion of the first  
energy passing across the wall of the tip;  
a second energy source and a second energy detector structurally coupled to the pipette  
tip receiving element, such that wherein the second energy source is configured to  
allow providing of provides a second energy to a surface of a biochip when the  
pipette tip approaches the surface of the biochip, and wherein such that the second  
energy detector is configured to allow receiving receives at least part of the  
second energy from the surface; and

- a processor electronically coupled to the first and second energy detectors, wherein the processor is configured to allow calculation of ~~calculate~~ an accurate aspiration volume of a predetermined volume using a signal from the first detector, and wherein the processor is further configured to allow control of ~~controls~~ movement of the pipette tip along a z-coordinate using a signal from the second detector.
2. (original) The analytic device of claim 1 wherein the first energy source comprises a laser, and wherein the first energy is provided to the volume via a light guide.
  3. (currently amended) The analytic device of claim 2 wherein the processor is further configured to allow calculation of accurate aspiration ~~is calculated~~ from a reflected light signal that is detected by the first energy detector.
  4. (original) The analytic device of claim 2 wherein the second energy source comprises an ultrasound transducer.
  5. (original) The analytic device of claim 1 wherein the sensor comprises an optoelectronic sensor.
  6. (original) The analytic device of claim 1 wherein the disposable pipette tip has a volume of equal or less than 200 microliter.
  7. (canceled)
  8. (currently amended) The analytic device of claim 1 further comprising a data transfer interface that is configured to allow export of of data from the device.
  9. (currently amended) The analytic device of claim 1 wherein the data transfer interface is configured to allow providing of ~~provide~~ data to a person other than the operator, wherein the person is in a remote location relative to the analytic device.
  10. (currently amended) The analytic device of claim 1 further comprising a sample station with a multiwell plate and a multi-reagent pack, wherein the robotic arm is further configured to allow removal of ~~pipette tip removes~~ a fluid from ~~at least one of the multi-~~

well plate and the multi-reagent pack and dispensation of ~~dispenses~~ the fluid onto the surface of the biochip using the pipette tip.

11. (withdrawn) An automatic pipette in an analytic device comprising a disposable pipette tip and a first and a second sensor, wherein the first sensor detects a volume of a liquid within the pipette tip and wherein the second sensor detects a vertical distance between the pipette tip and a biochip that is disposed in the analytic device.
12. (withdrawn) The automatic pipette of claim 11 wherein the pipette tip has a volume of equal or less than 200 microliter.
13. (withdrawn) The automatic pipette of claim 11 wherein the first sensor comprises a laser that delivers a laser beam into the pipette tip.
14. (withdrawn) The automatic pipette of claim 13 wherein the volume of the liquid is determined using at least one of a destructive interference, a constructive interference, a phase modulation, and a triangulation.
15. (withdrawn) The automatic pipette of claim 11 wherein the second sensor comprises an sound transducer that delivers a sound beam to a surface of the biochip.
16. (withdrawn) The automatic pipette of claim 15 wherein the vertical distance is determined using a time-of-flight calculation.
17. (withdrawn) The automatic pipette of claim 11 wherein first and second sensors are coupled to a robotic arm that moves the pipette along at least one of an x-coordinate, a y-coordinate, and a z-coordinate.
18. (withdrawn) The automatic pipette of claim 11 further comprising a third sensor that detects coupling of the disposable pipette tip to the automatic pipette.
19. (withdrawn) The automatic pipette of claim 11 further comprising a data transfer interface.

20. (withdrawn) The automatic pipette of claim 11 wherein the data transfer interface provides data to a person other than the operator, and wherein the person is optionally in a remote location relative to the analytic device.